

MECHANISMS OF VASODILATATION
WILRIJK 21 - 25 July 1980

PRELIMINARY SCIENTIFIC PROGRAM

The main concern of the Organizing and Scientific Committees has been to promote optimal conditions for personnel discussion and exchange of ideas.

THURSDAY, July 24th.

8.30 - 10 a.m. Poster Session

Group 10 : Na^+/K^+ exchange, moderator D.F. Bohr
Posters 3, 8, 10, 17, 30, 31, 34, 44, 46, 52, 59, 65
Group 11 : Ca^{2+} exchange, moderator J.C. Allen
Posters 3, 8, 9, 10, 24, 27, 36, 37, 40, 44, 45, 49, 50, 55, 62, 70, 72, 73, 75, 76, 81
Group 12 : Membrane potential, moderator V. Krebs
Posters 5, 44, 45, 53, 66
Group 13 : Metabolism/adenosine, moderator R. Bevan
Posters 7, 55, 67, 71
Group 14 : Mechanical properties, moderator R. Johansson
Posters 7, 46, 56, 57, 58, 62, 67, 71

Plenary Session 1 : "Basic Mechanisms of Vascular Smooth Muscle Relaxation"
Chairman : A.P. Somlyo

10.00 a.m. : G. Siegel : Anion, cations, membrane potential and relaxation
10.20 a.m. : R.C. Rohr : Na^+/K^+ ATP-ase activity and vasodilation
10.40 a.m. : W.B. Kubovics : Cyclic nucleotides and relaxation
11.00 a.m. : J.C. Strober : Calmodulin and vascular smooth muscle
11.20 a.m. : H. Stephens : Ca^{2+} resequestration and relaxation of vascular smooth muscle

11.40 a.m. : Coffee break

General Discussion Session 1 : "Cellular mechanisms of vasodilation"

Chairman : D.F. Bohr
12.00 : Introductory remarks : D.F. Bohr
12.05 p.m. : General discussion
Moderators : A.P. Somlyo, J.C. Allen, V. Krebs, R. Bevan, A.P. Somlyo, R. Johansson
1.05 p.m. : Lunch

FRIDAY, July 25th.

Plenary Session 2 : "Cerebral Circulation"
Chairman : I. Leusen

8.30 a.m. : Introductory remarks : I. Leusen
8.35 a.m. : C. Owman : Blood-brain barrier and cerebral vasodilation (special lecture)
8.55 a.m. : S. Duckles : Cholinergic vasodilator innervation of cerebral blood vessels
9.15 a.m. : D. Heistad : Acetylcholine, adenosine and VIP : effects on cerebral blood flow
9.35 a.m. : R. Berne : Metabolic regulation of cerebral blood flow
9.55-10.45 a.m. : Coffee break and Poster Session

Group 15 : Cerebral circulation, moderator R.J. Traystman
Posters 1, 2, 6, 7, 10, 20, 29, 40, 48, 58
Group 16 : Coronary circulation, moderator S. Vatner
Posters 14, 42, 54, 61, 71, 74
Group 17 : Hypertension, moderator C.L. Seldel
Posters 5, 7, 12, 13, 30, 36, 38, 49, 56, 71

General discussion Session 2 : "Cerebral and coronary vasodilation"
Chairman : S. Vatner
10.45 a.m. : Introductory remarks : S. Vatner
10.50-11.30 a.m. : General discussion
Moderators : P.J. Traystman, S. Vatner, I. Leusen

Plenary Session 3 : "Hypertension and Vascular Smooth Muscle Relaxation"
Chairman : E.E. Daniel

11.30 a.m. : Introductory Remarks : E.E. Daniel
11.35 a.m. : K. Hermeymeyer : Membrane potential
11.55 a.m. : T. Haddy : Na^+/K^+ ATP-ase
12.15 a.m. : C.Y. Kwan : Ca^{2+} transport
12.30 - 1 p.m. : General Discussion : moderators : R. Bevan and C.L. Seldel

8.30 a.m. : Welcome : P. Vanhoutte & I. Leusen.

Plenary Session 1 : "Neurogenic Mechanisms of Vasodilation"
Chairman : S.Z. Langer

8.35 a.m. : Introductory Remarks : S.Z. Langer

Introductory Lectures

9.40 a.m. : L. Rowell : Vasoconstrictor nerves in man (special lecture)
9.00 a.m. : J.A. Devan : Intrinsic tone and inhibition by vasoconstrictor nerves (special lecture)

Cholinergic Vasodilation

(co-chairman : M.J. Rand)

9.20 a.m. : Introductory remarks : M.J. Rand
9.25 a.m. : J. De Mey : Role of Na^+/K^+ ATP-ase in the vasoconstrictor response to acetylcholine
9.40 a.m. : R.F. Furchtgott : Role of the endothelium in the vasoconstrictor response to acetylcholine

10.00 a.m. : P. M. Vanhoutte : Why is acetylcholine a vasodilator ?

10.10 - 11.10 a.m. : Coffee break and Poster Session

Group 1 : Neurogenic mechanisms : moderator J.T. Shepherd

Posters 21, 23, 34, 40, 43, 50, 59

Group 2 : Vasoconstrictor mechanisms : moderator P.C. Johnson

Posters 3, 45, 50, 57, 58, 79, 81

Group 3 : Acetylcholine : moderator O. Nedergaard

Posters 2, 6, 18, 20, 26, 29, 31, 35, 47, 48, 75

Group 4 : Dopamine : moderator B.D. Fredholm

Posters 11, 60, 70

Dopaminergic vasodilation

(co-chairman : P. Hedqvist)

11.10 a.m. : Introductory remarks : P. Hedqvist

11.15 a.m. : W. Buylaert : Presynaptic inhibitory effects of dopamine
11.35 a.m. : L. Goldberg : Dopamine receptors on vascular smooth muscle (special lecture)

11.55 a.m. : General Discussion Session 1 : Neurogenic vasodilation, Chairman : G. Burnstock

11.55 a.m. : Introductory remarks : G. Burnstock

12.00 : General Discussion
Moderators : J.T. Shepherd, O. Nedergaard, P.C. Johnson, B. Fredholm, G. Burnstock, M. Rand, P. Hedqvist

1.00 p.m. : Lunch

Plenary Session 2 : "Circulating Substances and Local Factors : Endothelium"

Chairman : A. Kouch

2.00 p.m. : Introductory remarks : A. Kouch

2.05 p.m. : R. Verhaeghe : Plasma constituents causing vasodilation

2.25 p.m. : N. Toda : Angiotensin as vasoconstrictor

2.45 p.m. : S. Moncada : Role of vasoconstrictor prostaglandins in vascular control (special lecture)

3.05 p.m. : Announcement "Vasodilation and the Cardiovascular System" Wilrijk, December 1-3, 1980.

3.05 p.m. : Coffee break and Poster Session

Group 5 : Circulating vasoactive substances : moderator J. Lundvall

Posters 5, 19, 27, 32, 39, 41, 50, 61, 70, 75, 76, 81, 23, 71

Group 6 : Prostaglandins : moderator A. Herman

Posters 16, 22, 24, 28, 31, 46, 49, 70

Group 7 : Angiotensin : moderator H. Pittman

Posters 35, 41, 51, 72, 73, 74, 78

Group 8 : Histamine : moderator G. Burnstock

Posters 1, 13, 18, 24, 33, 41, 43, 44, 46, 49, 50

Group 9 : Metabolic vasodilatation : moderator R. Meldgaard

Posters 4, 14, 15, 31, 47, 59, 61, 74, 78

Plenary Session 3 : "Hypertension and Vasodilation"

Chairman : P.C. Johnson

4.10 p.m. : Introductory remarks : P.C. Johnson

4.15 p.m. : T. Forssman : Adenosine or adrenosine triphosphate ?

4.15 p.m. : H.V. Spratt : Anorex vasodilatation or anorex vasoconstriction ?

4.30 p.m. : J.T. Shepherd : Cold vasodilation or cold vasoconstriction (special lecture)

General Discussion Session 2 : "Endogenous vasoconstrictors"

Chairman : Z. Decq

5.15 p.m. : Introductory remarks : Z. Decq

5.20 - 6.20 p.m. : General discussion
Moderators : P.C. Johnson, A. Kouch, J. Lundvall, A. Herman, H. Pittman, G. Burnstock

4.00 p.m.

Plenary Session 4 : "Vasodilating Drugs, Mechanisms of Action"

Chairman : T. Gross

2.00 p.m. : Introductory remarks : T. Gross

2.05 p.m. : H. Starke : β -adrenergic and postjunctional α -adrenergic receptors in the blood vessel wall (special lecture)

2.25 p.m. : M. Dorer : Prostaglandin (special lecture)

2.45 p.m. : H. Werdel : Inderalazine

3.15 p.m. : J.M. Van Houten : Ca^{2+} antagonists and vasoconstrictors

3.45-4.15 p.m. : Coffee break and Poster Session

Group 18 : Vasodilator adrenergic receptors : moderator J.C. McGrath

Posters 11, 12, 13, 16, 17, 19, 20, 32, 33, 52

Group 19 : Mechanism of action of vasodilator drugs : moderator B. Ljungh

Posters 2, 12, 13, 19, 21, 24, 26, 34, 37, 41, 43, 44, 46, 48, 49, 50, 60, 61, 69, 70, 72, 73, 75, 79, 80, 81

Group 20 : Hemodynamic effects of vasodilator drugs : moderator R. Zelis

Posters 11, 40, 42, 51, 53, 54, 56

Plenary Session 5 : "Vasodilator drugs, hemodynamic and therapeutic implications"

Chairman : T. Di Peri

4.15 p.m. : Introductory remarks : T. Di Peri

4.20 p.m. : R. Zelis : Nitroglycerin and regional blood flow

4.35 p.m. : G. Mancia : α -adrenergic blockade and autonomic control

4.40 p.m. : P. De Leeuw : α -adrenergic blockade and hypertension

4.45 p.m. : D. Mann : Vasodilators and heart failure

5.20 p.m. : D. Robinson : Difference in response between arteries and veins

General Discussion Session 5 : "Vasodilator therapy"

Chairman : C. Ryan

5.10 p.m. : Introductory remarks : C. Ryan

5.35-6.25 p.m. : General discussion
Moderators : B. Ljungh, R. Zelis, T. Di Peri, T. Gross

6.25 p.m. : Concluding remarks : P.M. Vanhoutte